CIVIL PRO
AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

To,

Date: 03-06-2021

ASSISTANT EXECUTIVE ENGINEER
VIDYARANYAPURA SUB DIVISION
BBMP
BANGALORE

Dear Sir,

Sub: M/s. Civil Pro Services for the work of "MAINTENANCE AND REPAIR OF BURIAL GROUNDS IN WARD NO.10 (DODDABOMMASANDRA)."

Ref: 1. Work Order No: BBMP/EE/BTP/WO/109/2020-21

2. Job code: 010-20-000066

We are herewith forwarding to M/s Arun Kumar Enterprises, (Prop) Arun Kumar N, No:44, Siddanahalli, S.Madmagala, Bangarpet, 563114. First and Final bill duly verified and certified that the Work is satisfactory and for a Gross Value of Rs.8,46,422.00/- (Rs. Eight Lakhs Forty Six Thousand Four Hundred and Twenty Two Only).

Thanking you,

AE-10
3/6/21
Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97
Sweetha. KR
AE W10

CIVIL Pro
Sig.....
Date.....
BANGALORE

Yours faithfully,

For Civil Pro

R RUDRAPRASAD
AUTHORIZED SIGNATORY
CIVIL PRO

QC ABSTRACT

NAME OF WORK: Maintenance and Repair of Burial Grounds in Ward No.10 (Doddabommasandra)

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M25)	Compressive Strength(7days and 28days)	1 set /1-5 cum	5.14	2	2
9	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	3 set /16-30 cum	15.6	6	6

Suresh. N K
AE W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

10	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
11	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

Suresh. N L
AE W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-07-27-31** **Date: 14-09-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance and Repair of Burial Grounds in Ward No.10 (Doddabommasandra)
Agency	:	M/s Arun Kumar Enterprises, (Prop) Arun Kumar N, No:44, Siddanahalli, S.Madmagala, Bangarpet, 563114
Customer's Reference	:	BBMP/EE/BTP/WO/109/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-09-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	12-09-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.2	_
2	Finess by Air permeablity method (m^2/kg,Min)	249.5	225m^2/kg, Min
3	Density (gm/cc)	3.14	_
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	170 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 30 days from the date of issue of test certificate

Smitha. N.K
AE W10

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-07-27-31** **Date: 10-10-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance and Repair of Burial Grounds in Ward No.10 (Doddabommasandra)
Agency	:	M/s Arun Kumar Enterprises, (Prop) Arun Kumar N, No:44, Siddanahalli, S.Madmagala, Bangarpet, 563114
Customer's Reference	:	BBMP/EE/BTP/WO/109/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-09-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	12-09-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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Sweetha. N K
AE W10

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R. Rudraprasad
R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

Vidyaranyapura Sub Division BBMP, Bangalore - 97

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-07-27-31** **Date: 15-09-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance and Repair of Burial Grounds in Ward No.10 (Doddabommasandra)
Agency	:	M/s Arun Kumar Enterprises, (Prop) Arun Kumar N, No:44, Siddanahalli, S.Madmagala, Bangarpet, 563114
Customer's Reference	:	BBMP/EE/BTP/WO/109/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	12-09-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-09-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	423	423	2.8	97.2	90-100
3	20 mm	5852	6275	41.8	58.2	30-70
4	10 mm	4232	10507	70.0	30.0	10-35
5	4.75 mm	4225	14732	98.2	1.8	0-5
6	Pan	268	15000	100.0	0	---

Suretha-N K
AE W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-07-27-31** **Date: 15-09-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.56	_
5	Bulk Density(Compacted) (Kg/l)	1.59	_
6	Water Absorption(%)	0.23	_

* The results obtained are satisfactory as per standard requirements.

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FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

Sunitha.N.K
AE W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-07-27-31** **Date: 14-09-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance and Repair of Burial Grounds in Ward No.10 (Doddabommasandra)
Agency	:	M/s Arun Kumar Enterprises, (Prop) Arun Kumar N, No:44, Siddanahalli, S.Madmagala, Bangarpet, 563114
Customer Reference	:	BBMP/EE/BTP/WO/109/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-09-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-09-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	278	278	5.6	94.4	90-100
3	10 mm	2754	3032	60.6	39.4	25-55
4	4.75 mm	1754	4786	95.7	4.3	0-10
5	Pan	214	5000	100	0	_

Sweetha. N K
AE WO

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-07-27-31** **Date: 14-09-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.7	
3	Specific Gravity	2.69	_
4	Bulk Density(Loose) (Kg/l)	1.53	_
5	Bulk Density(Compacted) (Kg/l)	1.54	_
6	Water Absorption(%)	0.25	_
7	Aggregate crushing Value(%)	23.3	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Sweetha. N.K
AE W10

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

End of Report

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-07-27-31** **Date: 14-09-20**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Maintenance and Repair of Burial Grounds in Ward No.10 (Doddabommasandra)

Agency : M/s Arun Kumar Enterprises, (Prop) Arun Kumar N, No:44, Siddanahalli, S.Madmagala, Bangarpet, 563114

Customer's Reference : BBMP/EE/BTP/WO/109/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-09-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 12-09-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

AE LIO

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-07-27-31** **Date: 14-09-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Sunitha.N.K
AE W 10

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : CP-2021-07-27-31 **Date: 14-09-20**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Maintenance and Repair of Burial Grounds in Ward No.10 (Doddabommasandra)

Agency : M/s Arun Kumar Enterprises, (Prop) Arun Kumar N, No:44, Siddanahalli, S.Madmagala, Bangarpet, 563114

Customer's Reference : BBMP/EE/BTP/WO/109/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-09-20

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test : 12-09-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory
4	Sunvik	Fe500	16	1.581	572	674	19.0%	Satisfactory	Satisfactory

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Authorized Signatory
Technical Manager

CIVIL Pro Sig..... Date..... BANGALORE

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

AE WO

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-27-31** **Date: 06/10/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Maintenance and Repair of Burial Grounds in Ward No.10 (Doddabommasandra)

Agency : M/s Arun Kumar Enterprises, (Prop) Arun Kumar N, No:44, Siddanahalli, S.Madmagala, Bangarpet, 563114

Customer's Reference : BBMP/EE/BTP/WO/109/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-10-20

Customer ID : Plinth Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M25	29/09/2020	06/10/2020	149.57 X 150.19 X 149.36	22464	**8.192**	530.6	23.6	22.6
2	Plinth Beam Concrete	M25	29/09/2020	06/10/2020	151.95 X 149.94 X 149.05	22783	**8.677**	501.2	22.0	
3	Plinth Beam Concrete	M25	29/09/2020	06/10/2020	150.98 X 149.61 X 151.63	22588	**8.673**	498.3	22.1	

* The results obtained are satisfactory as per standard requirements.

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Sweetha. N R
AE W16

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

CIVIL Pro Sig..... Date..... BANGALORE

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-27-31** **Date: 27/10/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Maintenance and Repair of Burial Grounds in Ward No.10 (Doddabommasandra)

Agency : M/s Arun Kumar Enterprises, (Prop) Arun Kumar N, No:44, Siddanahalli, S.Madmagala, Bangarpet, 563114

Customer's Reference : BBMP/EE/BTP/WO/109/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-10-20

Customer ID : Plinth Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M25	29/09/2020	27/10/2020	151.61 X 150.82 X 150.58	22867	**8.991**	619.1	27.1	27.3
2	Plinth Beam Concrete	M25	29/09/2020	27/10/2020	151.64 X 149.57 X 150.52	22682	**8.435**	591.4	26.1	
3	Plinth Beam Concrete	M25	29/09/2020	27/10/2020	151.56 X 151.56 X 151.45	22970	**9.071**	662.9	28.9	

* The results obtained are satisfactory as per standard requirements.

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Sweetha.N.K
AE BIO

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-27-31** **Date: 29/09/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Maintenance and Repair of Burial Grounds in Ward No.10 (Doddabommasandra)

Agency : M/s Arun Kumar Enterprises, (Prop) Arun Kumar N, No:44, Siddanahalli, S.Madmagala, Bangarpet, 563114

Customer's Reference : BBMP/EE/BTP/WO/109/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-09-20

Customer ID : Footing Concrete For Main Gate

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete For Main Gate	M25	22/09/2020	29/09/2020	150.44 X 149.30 X 151.18	22461	**8.192**	520.5	23.2	22.8
2	Footing Concrete For Main Gate	M25	22/09/2020	29/09/2020	150.50 X 151.43 X 149.34	22790	**8.677**	515.7	22.6	
3	Footing Concrete For Main Gate	M25	22/09/2020	29/09/2020	150.96 X 150.39 X 150.55	22703	**8.673**	512.4	22.6	

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Customer/Representative
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Suretha .N L
AE LO10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-27-31** **Date: 20/10/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Maintenance and Repair of Burial Grounds in Ward No.10 (Doddabommasandra)

Agency : M/s Arun Kumar Enterprises, (Prop) Arun Kumar N, No:44, Siddanahalli, S.Madmagala, Bangarpet, 563114

Customer's Reference : BBMP/EE/BTP/WO/109/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-09-20

Customer ID : Footing Concrete For Main Gate

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete For Main Gate	M25	22/09/2020	20/10/2020	149.38 X 150.36 X 150.53	22459	**8.991**	608.3	27.1	27.1
2	Footing Concrete For Main Gate	M25	22/09/2020	20/10/2020	149.43 X 151.30 X 151.69	22609	**8.435**	593.7	26.3	
3	Footing Concrete For Main Gate	M25	22/09/2020	20/10/2020	149.89 X 150.35 X 151.49	22537	**9.071**	633.4	28.1	

* The results obtained are satisfactory as per standard requirements.

Note:

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Suretha .N.K
AE W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Authorized Signatory
Technical Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-27-31** **Date: 12/10/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Maintenance and Repair of Burial Grounds in Ward No.10 (Doddabommasandra)

Agency : M/s Arun Kumar Enterprises, (Prop) Arun Kumar N, No:44, Siddanahalli, S.Madmagala, Bangarpet, 563114

Customer's Reference : BBMP/EE/BTP/WO/109/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-10-20

Customer ID : Column Concrete For Main Gate

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete For Main Gate	M25	05/10/2020	12/10/2020	151.90 X 150.03 X 151.49	22789	**8.192**	529.5	23.2	22.7
2	Column Concrete For Main Gate	M25	05/10/2020	12/10/2020	150.51 X 149.46 X 150.62	22495	**8.677**	505.5	22.5	
3	Column Concrete For Main Gate	M25	05/10/2020	12/10/2020	149.68 X 150.32 X 151.56	22500	**8.673**	506.4	22.5	

* The results obtained are satisfactory as per standard requirements.

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Sweetha . N K
AE W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Technical Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-27-31** **Date: 02/11/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Maintenance and Repair of Burial Grounds in Ward No.10 (Doddabommasandra)

Agency : M/s Arun Kumar Enterprises, (Prop) Arun Kumar N, No:44, Siddanahalli, S.Madmagala, Bangarpet, 563114

Customer's Reference : BBMP/EE/BTP/WO/109/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-10-20

Customer ID : Column Concrete For Main Gate

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete For Main Gate	M25	05/10/2020	02/11/2020	151.02 X 150.67 X 150.05	22754	**8.991**	623.0	27.4	27.5
2	Column Concrete For Main Gate	M25	05/10/2020	02/11/2020	151.96 X 149.57 X 149.55	22729	**8.435**	608.2	26.8	
3	Column Concrete For Main Gate	M25	05/10/2020	02/11/2020	151.02 X 150.38 X 150.11	22710	**9.071**	642.6	28.3	

* The results obtained are satisfactory as per standard requirements.

Note:

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Sunitha. N K
AE 2nd

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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R. Rudraprasad
R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-27-31** **Date: 27/10/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Maintenance and Repair of Burial Grounds in Ward No.10 (Doddabommasandra)

Agency : M/s Arun Kumar Enterprises, (Prop) Arun Kumar N, No:44, Siddanahalli, S.Madmagala, Bangarpet, 563114

Customer's Reference : BBMP/EE/BTP/WO/109/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-10-20

Customer ID : Flooring Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flooring Concrete	M30	20/10/2020	27/10/2020	151.24 X 151.63 X 151.74	22933	**9.024**	586.1	25.6	25.5
2	Flooring Concrete	M30	20/10/2020	27/10/2020	150.83 X 149.61 X 150.41	22566	**9.076**	592.0	26.2	
3	Flooring Concrete	M30	20/10/2020	27/10/2020	150.77 X 151.37 X 149.93	22823	**8.703**	561.4	24.6	

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Note:

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Suvitha. N.L
AC 410

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Authorized Signatory
Technical Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-07-27-31** **Date: 17/11/2020**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance and Repair of Burial Grounds in Ward No.10 (Doddabommasandra)
Agency	:	M/s Arun Kumar Enterprises, (Prop) Arun Kumar N, No:44, Siddanahalli, S.Madmagala, Bangarpet, 563114
Customer's Reference	:	BBMP/EE/BTP/WO/109/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-10-20
Customer ID	:	Flooring Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flooring Concrete	M30	20/10/2020	17/11/2020	151.08 X 150.18 X 150.51	22689	**8.458**	765.0	33.7	33.4
2	Flooring Concrete	M30	20/10/2020	17/11/2020	151.93 X 151.28 X 151.83	22985	**8.647**	756.3	32.9	
3	Flooring Concrete	M30	20/10/2020	17/11/2020	150.31 X 149.02 X 150.78	22399	**8.843**	750.9	33.5	

* The results obtained are satisfactory as per standard requirements.

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Suvetha. N.K
AE WIO

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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BANGALORE

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R - Rudraprasad
R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-27-31** **Date: 27/10/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Maintenance and Repair of Burial Grounds in Ward No.10 (Doddabommasandra)

Agency : M/s Arun Kumar Enterprises, (Prop) Arun Kumar N, No:44, Siddanahalli, S.Madmagala, Bangarpet, 563114

Customer's Reference : BBMP/EE/BTP/WO/109/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-10-20

Customer ID : Flooring Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flooring Concrete	M30	20/10/2020	27/10/2020	151.07 X 151.32 X 150.71	22861	**9.024**	579.2	25.3	25.4
2	Flooring Concrete	M30	20/10/2020	27/10/2020	150.23 X 149.05 X 149.88	22393	**9.076**	588.8	26.3	
3	Flooring Concrete	M30	20/10/2020	27/10/2020	150.85 X 150.44 X 151.04	22694	**8.703**	559.3	24.6	

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Smitha. N.L
AE W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-27-31** **Date: 17/11/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Maintenance and Repair of Burial Grounds in Ward No.10 (Doddabommasandra)

Agency : M/s Arun Kumar Enterprises, (Prop) Arun Kumar N, No:44, Siddanahalli, S.Madmagala, Bangarpet, 563114

Customer's Reference : BBMP/EE/BTP/WO/109/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-10-20

Customer ID : Flooring Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flooring Concrete	M30	20/10/2020	17/11/2020	149.20 X 150.07 X 149.51	22389	**8.458**	761.1	34.0	33.4
2	Flooring Concrete	M30	20/10/2020	17/11/2020	149.56 X 149.74 X 151.53	22396	**8.647**	733.7	32.8	
3	Flooring Concrete	M30	20/10/2020	17/11/2020	149.90 X 151.13 X 150.43	22654	**8.843**	757.5	33.4	

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Technical Manager

Suvitha. N.K
AE W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-27-31** **Date: 27/10/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Maintenance and Repair of Burial Grounds in Ward No.10 (Doddabommasandra)

Agency : M/s Arun Kumar Enterprises, (Prop) Arun Kumar N, No:44, Siddanahalli, S.Madmagala, Bangarpet, 563114

Customer's Reference : BBMP/EE/BTP/WO/109/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-10-20

Customer ID : Flooring Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flooring Concrete	M30	20/10/2020	27/10/2020	151.08 X 149.74 X 149.42	22622	**9.024**	584.4	25.8	25.5
2	Flooring Concrete	M30	20/10/2020	27/10/2020	151.61 X 151.10 X 150.61	22908	**9.076**	603.9	26.4	
3	Flooring Concrete	M30	20/10/2020	27/10/2020	151.30 X 150.58 X 151.64	22783	**8.703**	553.6	24.3	

* The results obtained are satisfactory as per standard requirements.

Note:

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Sweetha N.M
AE 2010

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Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore-97

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R RUDRAPRASAD
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Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-07-27-31** **Date: 17/11/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Maintenance and Repair of Burial Grounds in Ward No.10 (Doddabommasandra)

Agency : M/s Arun Kumar Enterprises, (Prop) Arun Kumar N, No:44, Siddanahalli, S.Madmagala, Bangarpet, 563114

Customer's Reference : BBMP/EE/BTP/WO/109/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-10-20

Customer ID : Flooring Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Flooring Concrete	M30	20/10/2020	17/11/2020	151.29 X 149.93 X 151.02	22684	**8.458**	759.2	33.5	33.1
2	Flooring Concrete	M30	20/10/2020	17/11/2020	149.97 X 151.76 X 151.96	22758	**8.647**	745.6	32.8	
3	Flooring Concrete	M30	20/10/2020	17/11/2020	151.38 X 150.49 X 151.22	22781	**8.843**	752.0	33.0	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 30 days from the date of issue of test certificate

Suvetha. N
AE WD

Assistant Executive Engineer
Vidyaranyapura Sub Division
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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	**CP-2021-07-27-31** **Date: 13-10-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance and Repair of Burial Grounds in Ward No.10 (Doddabommasandra)
Agency	:	M/s Arun Kumar Enterprises, (Prop) Arun Kumar N, No:44, Siddanahalli, S.Madmagala, Bangarpet, 563114
Customer's Reference	:	BBMP/EE/BTP/WO/109/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-10-20
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	10-10-20
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

AE W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2021-07-27-31** **Date: 13-10-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	_
2	Specific Gravity	2.51	_
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.90	_
5	Loose Bulk Density (Kg/litre)	1.73	_

* The results obtained are satisfactory as per standard requirements.

Note:

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CIVIL Pro Sig..... Date..... BANGALORE

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

Sunitha .N K
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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Format No: CP/TF/2017

TEST REPORT FOR PLASTER SAND

Lab ID	:	CP-2021-07-27-31 **Date: 14-10-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance and Repair of Burial Grounds in Ward No.10 (Doddabommasandra)
Agency	:	M/s Arun Kumar Enterprises, (Prop) Arun Kumar N, No:44, Siddanahalli, S.Madmagala, Bangarpet, 563114
Customer's Reference	:	BBMP/EE/BTP/WO/109/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-10-20
Sample Type	:	Plaster Sand
Reference to BIS codes	:	IS: 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	10-10-20
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	15	50	5	95	95-100
4	1.18 mm	50	100	10	90	90-100
5	600 micron	100	200	20	80	80-100
6	300 micron	215	415	41.5	58.5	20-65
7	150 micron	500	915	91.5	8.5	0-15
8	Pan	85	1000	100	0	---

Assistant Executive Engineer
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BBMP, Bangalore - 97

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-07-27-31** **Date: 14-10-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	_
2	Specific Gravity	2.56	_
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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****End of Report****

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2021-07-27-31** **Date: 12-10-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance and Repair of Burial Grounds in Ward No.10 (Doddabommasandra)
Agency	:	M/s Arun Kumar Enterprises, (Prop) Arun Kumar N, No:44, Siddanahalli, S.Madmagala, Bangarpet, 563114
Customer's Reference	:	BBMP/EE/BTP/WO/109/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-10-20
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	08-10-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	404	200	202	16322	33.591	2058.1	2051.4	Not less than 1800Kg/m^3
2	405	198	202	16198	32.513	2007.2		
3	398	199	200	15840	33.091	2089.0		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : CP-2021-07-27-31 Date: 12-10-20

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	403	200	199	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	202	201	
3	404	202	199	
4	403	203	203	
5	404	199	203	
6	403	201	200	
7	401	202	200	
8	404	200	203	
9	402	203	199	
10	400	203	199	
11	399	202	199	
12	399	202	200	
13	400	199	200	
14	402	202	201	
15	403	203	202	
16	399	200	199	
17	403	200	199	
18	402	202	203	
19	402	201	200	
20	404	199	203	
Average of 20	**402**	**201**	**201**	

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Lab ID : **CP-2021-07-27-31** **Date: 12-10-20**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	200	80114	353.4	4.4	4.4
2	401	202	80949	353.5	4.4	
3	404	202	81421	365.2	4.5	
4	403	203	81766	353.6	4.3	
5	404	199	80485	362.3	4.5	
6	403	201	81058	369.0	4.6	
7	401	202	80897	355.9	4.4	
8	404	200	80669	366.9	4.5	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

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Assistant

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****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2021-07-27-31** **Date: 22-09-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance and Repair of Burial Grounds in Ward No.10 (Doddabommasandra)
Agency	:	M/s Arun Kumar Enterprises, (Prop) Arun Kumar N, No:44, Siddanahalli, S.Madmagala, Bangarpet, 563114
Customer's Reference	:	BBMP/EE/BTP/WO/109/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-09-20
Sample Type /Size	:	Precast Cover Slab (250mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	18/09/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	518.9	16.4	15.3	19.1
2	Cover Slab-2	200.49	250.52	3.122	31564	522.3	16.5	15.4	19.2
3	Cover Slab-3	200.48	250.51	3.118	31561	525.5	16.7	15.5	19.4

* The results obtained are satisfactory as per standard requirements.

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